# Principles of Industrial Hygiene (EPCT 1341)

**CREDIT** 3 Semester Credit Hours (lecture)

**MODE OF INSTRUCTION** Face to Face. Thursday 5:30pm – 8:00pm

### PREREQUISITE/CO-REQUISITE:

Passed the writing portion of TSI or other accepted testing instrument.

### **COURSE DESCRIPTION**

Explain terminology and discuss concepts of industrial hygiene and toxicology; describe the anatomy and function of the routes of entry; explain the of the major body systems; identify major health hazards found in the workplace and discuss their effects; apply threshold limit values and other appropriate workplace exposure standards; and prepare a report based on research and investigation of an area of industrial hygiene.

### **COURSE OBJECTIVES**

- 1. Explain terminology and discuss concepts of industrial hygiene and toxicology
- 2. Describe the anatomy and function of the routes of entry
- **3**. Explain the workings of the major body systems.
- **4**. Identify major health hazards found in the workplace and discuss their effects.
- **5**. Apply threshold limit values and other appropriate workplace exposure standards.
- 6. Prepare a report based on research and investigation of an area of industrial hygiene.

### INSTRUCTOR CONTACT INFORMATION

Instructor:	Peggy Williams, Certified Safety Professional
Email:	pwwilliams@lit.edu
Office Phone:	409 201 5124
Office Location:	Multi-Purpose Center (MPC) Room 109
Office Hours: (Appointment Recor	Thursday 5:00-5:30pm. nmended).

# **REQUIRED TEXTBOOK AND MATERIALS**

- Fundamentals of Industrial Hygiene by Barbara A. Plog & Patricia J. Quinlan, 6th edition, NSC Press Publisher
  - a. ISBN number is 978-0-87912-312-3
- 2. USB Flash drive



### ATTENDANCE POLICY

This is an attendance-based class. Attendance is required for all scheduled lectures and activities. Attendance and participation account for 10% of the overall class grade (as shown in the course evaluation). 3% points will be deducted from your overall grade (up to a maximum of 10%) for each unexcused absence.

An excused absence will only be granted if the student provides a written justification (for example, by email) which is vetted and approved by the instructor (such as a sickness/injury, or job-related requirement). If the student is applying for a job-related excused absence documentation must be provided from their employer, including their supervisor's contact information. A sick note from a Doctor or hospital is required for long term sickness/injury.

### **DROP POLICY**

If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

DATE	ΤΟΡΙϹ	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
<u>Week 1</u> 1/18/24	Monday – MLK Day - Campus Closed Thursday - Introduction of faculty/students, syllabus, and policies/ course introduction/expectations/Outline of Class Presentations of Selected Topic/Chapter 1 Overview of Industrial Hygiene	Week 1 PowerPoint	
Week 2 1/25/24	Chapter 2 The Lungs	Week 2 PowerPoint	
Week 3 2/1/24	Chapter 3 The Skin and Occupational Dermatoses	Week 3 PowerPoint	
Week 4 2/8/24	Chapter 4 The Ears	Week 4 PowerPoint	
Week 5 2/15/24	Chapter 5 The Eyes	Week 5 PowerPoint	Review of Chapters 1-5 for Exam 1
Week 6 2/22/24	Exam 1		<u>Exam 1</u>

#### **COURSE CALENDAR**

Week 7	Chapter 6 Industrial Toxicology	Week 7	
2/29/24		PowerPoint	
Week 8	Chapter 7 Gases, Vapors, and	Week 8	
3/7/24	Solvents	PowerPoint	
Week 9	SPRING BREAK		
3/14/24	(NO CLASSES)		
Week 10	Chapter 8 Particulates	Week 10	Outline of
3/21/24		PowerPoint	Proposal for Class Presentation to be submitted in writing on Thursday, 3/21/24
Week 11	Chapter 9 Industrial Noise	Week 11	Review of
3/28/24		PowerPoint	Chapters 1-5 for Exam 2 Class Presentations of Selected Topic
Week 12 4/4/24	Exam 2		Exam 2
Week 13	Chapter 10 Ionizing Radiation and	Week 13	Class
4/11/24	Chapter 11 Nonionizing Radiation	PowerPoint	Presentations of Selected Topic
Week 14	Chapter 12 Thermal Stress	Week 14	Class
4/18/24		PowerPoint	Presentations of Selected Topic
Week 15	<b>Final Day</b> for Class Presentations	Week 15	Class
4/25/24	of Selected Topic.	PowerPoint	Presentations of
	Chapter 13 Ergonomics and Chapter 14 Biological Hazards		Selected Topic.
			Review of
			Chapters 1-14 for
			Comprehensive
			Final Exam
Week 16 5/2/24	Comprehensive Final Exam		Final Exam

### **COURSE EVALUATION**

Final grades will be calculated according to the following criteria:

1. Class Attendance and Participation 10%

50%

30%

- 2. Two Class Tests (2 x 25%)
- 3. Class Presentation of Selected Topic/Instrument 10%
- 4. Final Exam

### **GRADE SCALE**

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 0-59 F

# **TECHNICAL REQUIREMENTS**

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <u>https://lit.edu/online-learning/online-learning-minimum-computer-requirements</u>. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

### **DISABILITIES STATEMENT**

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email <u>special Populations@lit.edu</u>. You may also visit the online resource at <u>Special Populations - Lamar Institute of Technology (lit.edu</u>).

# STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at <u>www.lit.edu</u>. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

### STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.